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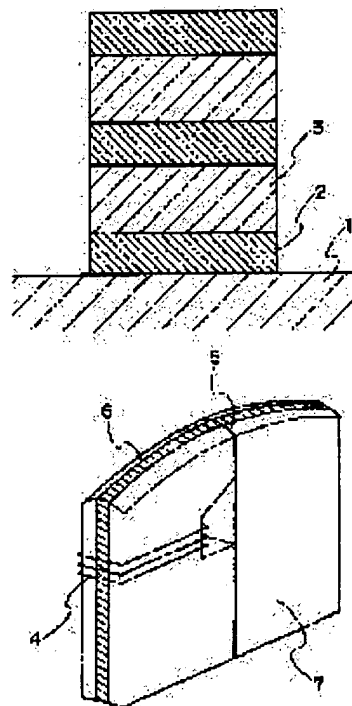
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(54) LAMINATED MAGNETIC THIN FILM AND MAGNETIC HEAD USING SAME

(57)Abstract:

PURPOSE: To enable a magnetic head to show soft magnetic characteristics and obtain a high saturation magnetic flux density and a high permeability even if a heat treatment is performed on the magnetic head by a method wherein one end of a laminated material consisting of a magnetic thin film is provided with a magnetic core having a magnetic gap and a coil, which is revolved around the core, and the laminated material consisting of the magnetic thin film is formed of a laminated magnetic thin film.

CONSTITUTION: A heat treatment is performed on a multilayer film obtained by laminating alternately iron-nitrogen compound layers 2 containable iron and Co amorphous alloy layers 3 on a substrate 1 at a temperature region of 450°C or higher to diffuse nitrogen in the layer 3 from the layers 2 and a laminated magnetic thin film having the heat-resistant Co amorphous alloy layers 3 is obtained. Thereby, even if a heat treatment having a process to perform a glass molding is performed on a magnetic head for fusion-welding a gap in the magnetic head at 500°C or thereabouts, the magnetic head is superior in soft magnetic characteristics and can possess a high saturation magnetic flux density and a high permeability. Accordingly, the laminated magnetic thin film can be formed on a magnetic core 6 of the magnetic head.



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